

CAPSULE SUMMARY OF ACTIVE TASKS

July 1, 2005

UNITED STATES MEMBER STATE SUPPORT PROGRAM TO IAEA SAFEGUARDS

**DEPARTMENT OF ENERGY
DEPARTMENT OF STATE
NUCLEAR REGULATORY COMMISSION
DEPARTMENT OF DEFENSE**

**INTERNATIONAL SAFEGUARDS PROJECT OFFICE
BROOKHAVEN NATIONAL LABORATORY
UPTON, LONG ISLAND, NEW YORK 11973**

Currently Active Tasks

TaskID	Subtask	Title	[Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
A.116		Field Support Instruments and Techniques [USA A 931 / R. Carchon]		ORNL	\$155,336.00	\$155,337.00	There was no activity scheduled for this quarter.
	A.116.83			LANL	\$248,000.00	\$237,650.00	Cascade Header Enrichment Monitor - There has been no activity reported for this quarter.
A.200		Environmental Sampling and Analysis Support [USA B 817 / V. Henry]		ISPO	\$162,700.00	\$162,700.00	
A.202		Separation of Plutonium Isotopes for the Production of High Purity Spike Reference Materials [USA A 909 / D. Donohue]		LANL	\$17,100.00	\$17,100.00	There has been no activity reported for this quarter.
				NBL	\$77,225.00	\$60,115.00	Steven Goldberg attended a Steering Committee meeting on the FP-33/Pu-244 project on May 27, 2005, at the IAEA. The committee discussed the shipment of US feed material to the IAEA, the status of Russian enrichment capabilities, the IAEA-VNIIEF contract for the enrichment of Pu-244, and the analysis of FP-33 material prior to shipment. Dr. Goldberg met with Dr. Stanislav Vesnovskii of VNIIEF and Dr. Maxim Penkin of the IAEA to discuss the possible purchase of Russian Pu-244 for the project.
				ORNL	\$127,284.00	\$77,187.00	The Memorandum of Understanding (MOU) between the Department of Energy and the IAEA for this project has been signed. ORNL is assessing the project requirements related to shipping the feed material to the IAEA, to assure that adequate funding is available and that there are no problems to deter the completion.

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A.218		Controlled Potential Coulometry of 1 mg Pu with SRL Coulometer	[USA A 1049 / S. Balsley]	SRNL	\$334,023.00	\$266,930.00	Michael Holland (SRS Analytical Laboratories) visited SAL from April 18 to 27, 2005. Statistically significant systematic errors had been observed in the measurement results for several types of certified reference materials (CRM) for several months. The SRS Coulometer at SAL has been returned to service, after troubleshooting and testing by SRS. The significant systematic measurement error has been eliminated. Both the random and the systematic uncertainties in the SAL analytical capabilities for coulometric assay of plutonium have been returned to well within the quoted reliability for the measurement system. This measurement reliability is within the international target values for safeguards measurements and within the data quality objectives for the analytical activities performed at SAL.
A.223		Technical Support to the Clean Laboratory	[USA A 1081 / D. Donohue]				
	A.223.09			LANL	\$107,000.00	\$28,000.00	Clean Laboratory Training at LANL and SAL - Taeko Shinonaga will visit LANL from September 13 to 22, 2005, to receive clean room training. Rob Steiner and Wes Efurd (LANL) will visit Seibersdorf Analytical Laboratory in FY 2006. This will not change the scope or cost of the training. Stephan Vogt's two days of refresher training on March 14 and 15 at LANL was cancelled due to snow and will not be rescheduled.
A.233		NDA Verification Techniques for BRN Enrichment Plant	[USA A 1157 / R. Lafolie]	ORNL	\$561,870.00	\$561,870.00	This task is on stand by.

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A.241		Development of Integrated Review Software for UMS [USA A 1238 / C. Liguori]					
			LANL	\$402,000.00	\$340,268.00		LANL Integrated Review Software - Minor updates to the foundational component libraries have been made to expand the flexibility of the new IRS design and architecture. The updated component libraries include Facility Manager, Import Manager, and the generic import/analysis COM interface specifications. The interface specification documents for the new IRS components were updated to reflect the added, or modified, capability of the software. Suggestions for the updates and modifications to the software were received from the IAEA in February and May of 2005. Updates or change requests that impacted the new IRS software elements were documented and tracked via processes defined by the UNARM Software Control Board. Modified and/or updated software will be delivered to the IAEA in the Baseline 2 Rev 0 UNARM product, scheduled for release on September 1, 2005.
	A.241.01		LANL	\$168,870.00	\$46,559.00		Adoption of OPD Data into Generic Software - The Operator Declarations Conversion and Review (ODCAR) software requirements document has been reviewed and only a few points remain to be addressed. A change of scope may be requested to modify the types of electronic files from which declarations will be converted. The ODCAR software design document has been written and is awaiting approval of the requirements document to go out for review. Some urgent tasks related to the Rokkasho NDAR work stemming from projects A.247.16 and E.122.10 have produced a resource conflict which impacts this project. The IAEA has been informed. It is likely that a change in schedule for A.241.01 will be sought, pending IAEA approval.
	A.241.02		LANL	\$123,000.00	\$6,300.00		Prototype Analysis Module - The Interface documentation for analysis COM has been written and sent to the IAEA for review.
	A.241.03		LANL	\$27,000.00	\$3,800.00		Implementation of VIFM Analysis - There has been no activity reported for this quarter. This task is dependent on the production of the VIFM Analysis COM by the IAEA.
	A.241.04		LANL	\$74,000.00	\$3,700.00		IRS Upper Layer Redesign, Standardization - There has been no activity reported for this quarter.

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A.242		Evaluation of Miniature GRAND Electronic Unit [USA A 1239 / Y. Lee]					
	A.242.02		LANL	\$220,000.00	\$206,889.00		MiniGRAND Commercialization - There has been no activity reported for this quarter.
	A.242.06		LANL	\$630,000.00	\$608,830.00		MiniGRAND Microprocessor Board (MPB) Upgrade - A prototype unit which runs MiniGRAND firmware was provided to the IAEA. The expert Jim Halbig worked on several prototype hardware issues in April. A FAT file system was ported to the new MPB. This system will be used to provide large, up to one GB, on-instrument storage for stand alone installations and UNARM installations of up to three months, and possibly more. LANL worked to provide error detection and correction for the memory. LANL's Technology Transfer group worked to commercialize the Component Board for the MPB and ACD, which carries the common processor and other subsystems.

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A.247	Support for the Development of the SG System at Rokkasho Reprocessing Plant [USA A 1351 / S. Johnson]				
A.247.05		LANL	\$814,000.00	\$723,765.00	RRP Integration of Inspection Equipment - LANL continued to work on the preliminary calibration and setup of the Vitrified Waste Canister Assay System (VCAS), in preparation for the shipment of the detector to Japan in August 2005. The supporting documentation is being produced. This work and a visit to RRP to install the detector will finish the original scope and funding for this task. The SSTS approved additional funding at its May 18, 2005, meeting for the provision of ion chamber monitors in the VCAS area and the implementation of the Temporary Canister Verification System data acquisition system.
A.247.07		LANL	\$54,000.00	\$52,073.00	RRP Monitoring of Shielded MOX Canisters - LANL has stated that work under this task is complete. A paper describing the main points of the work performed under this task was presented at the ESARDA conference in London in May 2005 (LA-UR-05-3152). ISPO needs to obtain concurrence from the IAEA prior to project closeout.
A.247.09		LANL	\$176,000.00	\$154,407.00	RRP Project Coordination - The SSTS approved additional funding for this task at its April 7, 2005, meeting. Martyn Swinhoe (LANL) continues to report to the IAEA on all work done for the Rokkasho Reprocessing Plant by LANL. Work to be done on the Temporary Canister Verification System and the provision of inspector training has been coordinated between JNFL, the IAEA, and NMCC.
A.247.13		IAEA	\$752,709.00	\$857,702.00	RRP Integrated Inspector Information System (I3S) - All deliverables for this task have been accepted by the IAEA.
A.247.16		LANL	\$44,000.00	\$42,600.00	IRS Software Assessment for RRP NDA Applications - LANL completed the review of the Stand-Alone IRS software requirements and discussed the information with the IAEA. Project plans for LANL support to the NDAR system and the standardization efforts were prepared and submitted to ISPO and the IAEA. The SSTS approved the FY05 portion of this work at the May SSTS meeting, pending IAEA approval. LANL held a conference call with the IAEA to discuss their comments on the proposals. LANL has submitted suggestions to the IAEA to address their comments and is awaiting guidance from the
A.247.17		BMI	\$46,105.00	\$28,519.00	Netscreen Security Audit - Jeff Thomas (BMI) is the contact for this Subtaskk. All travel involved in this Subtaskk is complete. When the IAEA approves the final report, ISPO will receive a copy and will proceed with project closeout with IAEA concurrence.

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	A.247.18	LANL	\$191,000.00	\$56,783.00	Stand-Alone Integrated Review Software (IRS) and Training - This Subtaskk was approved at the May 2005 SSTS meeting. LANL was funded in December to work with the IAEA to study the requirements for a Stand-Alone IRS, which the IAEA can use as a backup system for the I3S/NDAR software and as an interim solution until the I3S/NDAR is complete. The IAEA and LANL agreed to use the individual review tools including Radiation Review, INCC, and ISO, rather than the "Integrated Review" which would require more effort to set up but give the inspectors a higher degree of information review. LANL provided a proposal to train IAEA inspectors in the use and operation of the Stand-Alone IRS system. The tentative date for the course is September 2005.
	A.247.19	LANL	\$511,500.00	\$140,287.00	UNARM Tool COM Support for NDAR - The SSTS approved funding for this task at the May 2005 SSTS meeting. The SSTS approved a change of scope of task A.247.19 via phone poll. The IAEA revised its timetable for accomplishing the software development and intends to have LANL focus on task A.247.19 first and put task E.122.14 on stand
A.248	Gate Monitor at LWRs Loaded with MOX Assemblies [JNT USA A 1356 / T. Pochet]	LANL	\$330,000.00	\$279,630.00	There has been no activity reported for this quarter.
A.250	Enhanced ANM Capability for HKED Software at SAL [USA A 1369 / N. Doubek]	LANL	\$165,000.00	\$166,055.00	There has been no activity reported for this quarter.
	A.250.01	LANL	\$165,000.00	\$166,055.00	There has been no activity reported for this quarter.
A.251	Expert - Instrumentation Systems [USA E 1372 / M. Aparo]	CFE	\$550,000.00	\$411,378.00	The expert James Halbig and a team traveled to Chernobyl to install monitoring systems at Units 1, 2, and 3. Modifications to cables and equipment at access points were made according to feedback from the facility. Parts for the installation were ordered. LANL reported that detectors were tested and are well suited to the installed hardware. A test detector system was installed at the IAEA and data is being retrieved and reviewed. Dr. Halbig began building a prototype ACD Board for testing the implementation that will be used in Rokkasho. Requests for contract manufacture of the motherboard have been prepared and are waiting for LANL commercialization of the component processor board, which is to be used on both the new Master Processor Board (MPB) and the ACD. Dr. Halbig continues to review state-of-health information from the BN-350 Reactor unattended monitoring system. The process to finalize the upgrade of the modified Zvilag Detector has begun.

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A.252	Field Support and Implementation [USA A 931 / R. Carchon]				
A.252.08		BNL/NCT	\$59,311.55	\$58,933.00	Downblending at Ulba - The Ulba fuel fabrication facility in Kazakhstan began its campaign to downblend HEU from unirradiated BN-350 fuel stored previously at the Ulba facility. The IAEA requested resumption of the advice and assistance from Jim Lemley (BNL), which had been initiated in March 2003. Early assistance was requested before large quantities of the HEU were processed. Dr. Lemley arrived in Vienna on June 14 to consult with the IAEA, in preparation for a visit to Kazakhstan with the IAEA from June 18 to 24, 2005.
A.252.09		ORNL	\$7,821.00	\$7,821.00	IQ3 Detector - There has been no activity reported for this quarter.
A.252.10		BNL/NCT	\$68,744.00	\$68,612.00	Neutron Camera - There has been no activity reported for this quarter.
A.252.10		INL	\$24,008.00	\$24,570.00	
A.252.10		LLNL	\$81,000.00	\$75,068.00	Gamma Camera - The report has been sent to the IAEA for review and comment and is being finalized.
A.252.12		KCP	\$568,625.00	\$0.00	T-1 Seals - KCP shipped the first batch of fifty seals to the IAEA on April 15, 2005. KCP sent a second shipment of fifty seals in May. The IAEA will visit the Savannah River Site in August and will verify the receipt of the seals. This Subtaskk can be closed upon confirmation of
A.252.14		LANL	\$146,000.00	\$106,679.00	FDMS and RR Codes - Joe Longo worked on small bug fixes, in preparation for the formal release of FDMS with UNARM Baseline 2. Joe Longo and Shirley Klosterbuer are working on the September 1, 2005, release.
A.252.15		LANL	\$48,000.00	\$46,500.00	Upgrade VWCC at Tokai - There has been no activity reported for this quarter. The final report is in progress.
A.252.16		LANL	\$41,000.00	\$34,500.00	Recalibration of the Hulls Measurement and Monitoring System (HMMS) - The final report is in progress.
A.252.18		LANL	\$28,000.00	\$28,000.00	Unattended Uranium Enrichment Monitor -The SSTS approved this Subtaskk at its May 18, 2005, meeting. Don Close was scheduled to meet with Bernard Wishard to discuss the development of an unattended uranium enrichment monitor.

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A.253	Expert - Specifications of Data Collection and Evaluation Software for RRP (P4) [USA A 1398 / S. Johnson]	CFE	\$410,477.00	\$369,112.00	<p>The expert Joseph Damico has been monitoring the contract with Cap Gemini Ernst & Young (CGE&Y) for the development phase of the Integrated Inspector Information System (I3S) Software, which was signed on April 1, 2005. Many enhancements have been delivered, and others are pending. The first formal release of the I3S was installed at RRP during April, including ASAS, GARS, and an early release of Solution Monitoring Measurement System (SMSS). The system processed more than 2.5 million files in the first two weeks of operation.</p> <p>The installation and related testing revealed problems with several software components, which have been reported to the contractors and fixes are underway. Work continues to configure the I3S for optimal performance. Inspectors are using the I3S for the limited inspection activities during the uranium testing phase at RRP. The I3S at RRP enables inspectors and others to access the system graphical user interface (GUI) from their desks in Vienna and to browse the raw data files over the SG LAN.</p> <p>The Network Security Audit for the I3S was conducted during May and June. The contractor visited IAEA headquarters in late May to perform preliminary work and to plan the audit work at RRP. The contractor, SGIT staff, and SGOA inspectors performed the audit at RRP during the week of June 6. The NDA Review (NDAR) design effort is nearly complete. Procurement for the various NDAR components including the LANL Nuclear Code will start in August. A contract for the I3S Surveillance Review Subsystem (SURS) was placed with Aquila Technologies, which will last for approximately six months. SURS will be installed at RRP after it is tested in Vienna. Mr. Damico coauthored papers on the I3S and SURS for the 46th INMM conference.</p>
A.256	Evaluation Software for HKED Spectral Analysis for the Joint IAEA/JSGO On Site Analytical Laboratory at the Rokkasho Reprocessing Plant [USA A 1420 / G. Duhamel]	LANL	\$160,000.00	\$160,147.00	<p>There has been no activity reported for this quarter.</p>

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A.257		Consultant - Chemical Separation Techniques for Environmental Samples [USA A 1432 / Y. Kuno]	Clemson	\$298,000.00	\$203,199.00	This task will improve certain radiochemistry separation methods, used in the analysis of radionuclides in safeguard samples at the IAEA Safeguard Analytical Laboratory (SAL). Task 1 involves an improved procedure to reduce impurities in separated environmental samples, to allow good recovery at the 10 picogram of plutonium-244 spiking level, to lower the detection limit of the thermal ionization mass spectrometer. Task 2 involves the development of an additional separation step in the normal procedure for uranium and plutonium analysis, to measure americium in environmental samples at the sub-picogram level. Task 3 involves the development of a method to separate and determine small traces of uranium found in purified plutonium samples, as a means of "fingerprinting" materials under safeguards. This work is being performed at SAL by James Navratil and Amanda Padgett. A final draft report is due to SAL for review by November 30, 2005.
			IAEA	\$71,300.00	\$68,404.00	This funding is provided for travel expenses for Dr. James Navratil (Clemson University) and Amanda Padgett (Clemson University graduate student).
A.258		Detection System for In Situ Measurements of Neutron Signatures from Spent Fuel Storage Containers [USA A 1434 / Y. Lee]	LANL	\$180,000.00	\$91,342.00	This task had a recent scope change because the original SP-1 measurement method was determined to be impractical. High-energy neutron imaging of the dry storage cask contents has been determined to be the measurement method of choice. On June 30, 2005, a meeting between LANL and the IAEA resulted in a change in task scope to eliminate the construction of the original thermal neutron counter and, instead, to perform laboratory testing of the high-energy neutron imaging principle and field testing of the technique at INEEL, and to develop an engineering design of a measurement system. Assuming a positive outcome of the proof-of-principle field tests, the IAEA plans to submit a follow-on SP-1 request for the construction and delivery of a field-usable detector system. The scope change does not require additional funding. ISPO will obtain SSTS concurrence on this scope change.

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A.259		Expert - Development of New Seals [USA E 1452 / M. Zendel]	CFE	\$402,900.00	\$282,596.00	The expert Hal Udem is overseeing the VOID-3 Seals Design Contract (SDC) with Avery Dennison. The SDC will examine new adhesive seal application issues, such as the use of adhesive seals on nuclear material canisters for short periods of time during intrafacility transit. LANL was selected as the vulnerability assessment (VA) team and will examine the developing VOID-3 design (see Task E.145), based on a baseline VA of the VOID-2 and VAs of Avery Dennison produced prototypes. Under the metal seal signature studies, there are difficulties in incorporating radio frequency identifiers (RFIDs) as a potential metal seal signature element, which might augment or replace the current signature. Although the Joint Research Center at Ispra has demonstrated the ability to read RFIDs from inside metal cup seals, the read reliability appears to be very low.
A.262		Coordinated Experts' Meeting on Noble Gas Monitoring and Sampling [JNT USA A 1494 / J. Whichello]	BNL	\$25,000.00	\$23,694.00	The SSTS approved on June 28, 2005, Robert Bari's attendance at the Coordinated Experts' Meeting on Noble Gas Monitoring and Sampling. Dr. Bari will make a presentation to the IAEA at this meeting, scheduled from September 12 to 16, 2005
			PNNL	\$71,000.00	\$58,951.29	The SSTS approved funding by phone poll in June for US experts to participate in the September 12 to 16, 2005, technical meeting to address the use of noble gas monitoring as a tool for detecting undeclared reprocessing activities or for other safeguards applications. Ted Bowyer and Ned Wogman (PNNL), Robert Bari (BNL), and Dan Fortney (DOD) may participate. Dr. Bari has submitted an abstract for the meeting.
A.263		Traceability of DA Measurements - Provision of NBL Certified Reference Materials [USA A 1496 / S. Balsley]	NBL	\$103,000.00	\$32,625.00	There has been no activity reported for this quarter.

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A.264		Analytical Quality Control - Participation of SAL in NBL SME Programme [USA A 1497 / S. Balsley]	NBL	\$25,000.00	\$700.00	Peter Mason participated in the IAEA's Consultants' Group Meeting on Nuclear and Environmental Reference Materials for IAEA Safeguards Verification Measurements by Destructive Analysis, from May 23 to 26, in Vienna. The purpose of the meeting was to assemble an international group representing the IAEA and nuclear reference material (NRM) producers to discuss current programs of production of NRMs, to identify problems, and to make recommendations for future activities which involve the IAEA in the Measurement Evaluation (ME)
A.265		Environmental Sampling Evaluation Support [USA A 1498 / W. Fuhr]	ORNL	\$209,000.00	\$169,824.00	Diane Fischer provided environmental sampling (ES) evaluation support for three weeks in June. Ms. Fischer completed seven high priority ES evaluation reports and a review of the ES Safeguards Technical Report evaluation chapter. She participated in a quality control discussion, organized a tutorial on the MStar code, and created a template with instructions for a data visualization tool for ES data.
	A.265.01		ORNL	\$32,000.00	\$32,000.00	ORIGEN/SCALE Software and Training - The SSTS approved funding at its April 2005 meeting for Task A.265.01. Preparations for the ORIGEN/SCALE training at the IAEA on September 14 to 16 are underway. Class participants and alternates have been identified. Steve Bowman and Ian Gauld (ORNL) are customizing the training to focus on Safeguards applications and outputs.
B.080		Training Workshop in Design Information Review for the Entire Life Cycle of Research Reactors [USA B 984 / P. Rodriguez]	BNL/SAC	\$305,000.00	\$244,748.00	This task is on stand by.
			ORNL	\$0.00	\$0.00	This task is on stand by.
	B.080.01		ISPO	\$76,062.00	\$90,200.00	This task is on stand by.

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B.082		Safeguards Training Course: Enrichment Technology				
		[USA B 1001 / M. Hunt]	ORNL	\$389,255.00	\$389,255.00	ORNL delivered the tenth session of Nuclear Material Safeguards for Uranium Enrichment Plants training to sixteen IAEA inspectors from June 13 -17, 2005. Michael Whitaker, Joe Dooley, and Duane Starr presented the week long course. Instructional videos, training chart books, and the IAEA training manual on "Uranium Enrichment Plant Characteristics" were provided to the IAEA.
B.084		Revision of Introductory Course on Agency SG (ICAS)				
		[USA B 1106 / P. Rodriguez]	BNL/ENT	\$15,144.00	\$15,144.00	
			Sonalysts	\$644,000.00	\$515,737.00	Michael Stein (Sonalysts) visited the IAEA for one week. Mr. Stein worked directly with the Section for Safeguards Training (TTR) on the project to upgrade ICAS. He participated in meetings with the TTR Section Head and the ICAS Training Officer, to understand their views of the modernizations and improvements needed to upgrade the current version of the course. Mr. Stein interviewed Operations Division Section Heads, Unit Heads, and graduates of ICAS 50, to obtain input on the job performance of ICAS graduates. He reviewed the curricula and selected training materials for the 50th and the 52nd ICAS. Mr. Stein submitted a report with recommendations for upgrading ICAS.
B.090		Workshop on Quality Assurance Techniques				
		[JNT USA B 1277 / D. Neal]	SAM	\$150,000.00	\$69,147.00	
	B.090.01		SAM	\$84,000.00	\$162,426.00	There has been no activity reported for this quarter.

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B.091		Training on Remote Monitoring and Unattended Monitoring					
		[USA B 1337 / P. Hypes]					
	B.091.03			LANL	\$138,500.00	\$91,100.00	
							Radiation Review Software Training - Please see: Task B.093.03, Contractor: Sonalysts.
	B.091.03			Sonalysts	\$118,500.00	\$92,451.00	
							Colin Carroll (Sonalysts) worked with John Determan and Kelly Michele (LANL) to present the MIC/Radiation Review pilot course to a group of twelve Agency inspectors. The pilot course included classroom instruction, practical training, performance tests, and a written examination. The goal of the pilot course is to provide Agency inspectors with the knowledge and skill required to perform MIC and Radiation Review software tasks, which they would be expected to perform in their jobs.
B.093		IAEA Participation in U.S. Sponsored Training Courses					
		[USA B 0086 / P. Hypes]					
	B.093.05			LANL	\$495,286.00	\$488,600.00	
							Advanced Plutonium Verification Techniques - Preparations were made for the June presentation of the course.
	B.093.06			LANL	\$865,748.00	\$708,543.00	
							There was no activity scheduled for this quarter. LANL will conduct an NDA course for new IAEA inspectors from August 15 to 26, 2005.
	B.093.07			BNL	\$12,000.00	\$0.00	
	B.093.07			LANL	\$74,000.00	\$73,100.00	
							This task is in stand by.
	B.093.07			SRNL	\$47,000.00	\$45,065.00	
							This task is in stand by.
B.094		Neutron Pulse Simulator for Training and Testing					
		[USA B 1401 / A. Lebrun]					
				LANL	\$529,300.00	\$427,701.00	
							The Neutron Pulse Simulator (NPS) project is nearing completion. Eight units have been assembled, tested, and shipped to the IAEA. The User Manual is complete. Training material is being assembled.

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B.096		Workshop on Additional Protocol Activities [USA B 1415 / M. Hunt]	BNL/NCT	\$320,679.00	\$51,106.00	BNL submitted a revised project plan and cost proposal for this effort. The documents are being reviewed by ISPO and will be presented to the SSTS at its September 1, 2005, meeting.
B.098		Enhanced Observational Skills [USA B 1446 / M. Hunt]	Sonalysts	\$286,000.00	\$224,537.00	An additional implementation of the initial training course on Enhanced Observational Skills was added to Sonalysts' contract with BNL. The course was conducted during the week of May 2, 2005. It was attended by eleven experienced safeguards inspectors. Two implementations of refresher training are expected to be completed in CY 2005. The Agency requested that an additional implementation of the initial training course be conducted in October, as part of the ICAS course that was added recently to the training schedule.
B.099		Physical Inventory Taking Computer Based Training [USA B 1464 / V. Cisar]	BMI	\$175,000.00	\$164,055.00	There has been no activity reported for this quarter.
B.101		Expert - Senior Instrumentation Specialist - Training in NDA Equipment and Procedures [USA B 1418 / A. Hamilton]	IAEA	\$230,000.00	\$51,266.00	The expert Philip Hypes is expected to begin his CFE assignment on July 1, 2005.
C.102		Development of Safeguards for Final Disposal of Spent Fuel in Geological Repositories - SAGOR Phase II [JNT USA C 1204 / M. Diaz-Menendez]	ISPO	\$5,389.00	\$5,389.00	There was no SAGOR activity for this quarter. There is no activity expected for the rest of the calendar year. The IAEA plans to make a formal request for the next phase of this work. This task will be considered complete when that request is received.
			LANL	\$58,600.00	\$58,600.00	There was no activity for this quarter.
			SNL	\$17,947.32	\$17,947.32	There was no activity for this quarter.

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C.105	Expert - Development of the Safeguards System for Rokkasho Reprocessing Plant (Ehinger) [USA C 1257 / S. Johnson]	CFE	\$934,500.00	\$778,043.00	The SSTS approved the extension of Michael Ehinger's CFE contract through July 2006 at its April 7, 2005 meeting. Mr. Ehinger continued to support the IAEA's JNFL Project. The Rokkasho Reprocessing Plant (RRP) continues uranium commissioning. Solution monitoring data is being collected at the facility. Mr. Ehinger has been involved with maintenance and troubleshooting equipment, which has resulted in a number of procedures and instructions for inspectors in the field. Testing of the Solution Monitoring Software (SMS) for processing the data continues. Mr. Ehinger helped identify and resolve bugs detected during integration with the overall Integrated Inspector Information System (IIS). A preliminary release of the SMS from the JRC-Ispra has been received, which is configured for processing solution monitoring data from the Tokai Reprocessing Plant. Mr. Ehinger is working with staff to start to parameterize the evaluation routines. The basic concept of this software is similar to the SMS for the RRP.
C.106	Expansion of the Physical Model [USA C 1279 / Z. Liu]	BNLCONTR	\$28,000.00	\$15,706.00	
		INEEL	\$11,900.00	\$11,379.00	There has been no activity reported for this quarter.
		ISPO	\$11,000.00	\$13,423.00	There has been no activity reported for this quarter.
		LLNL	\$12,000.00	\$10,930.32	There has been no activity reported for this quarter.
		ORNL	\$140,745.00	\$140,745.00	There has been no activity reported for this quarter.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
C.110	Development and Test of an Integrated Safeguards Scheme for Transfers to Dry Storage at CANDU Reactors [JNT USA C 1388 / J. Doo]	LANL	\$9,300.00	\$9,300.00	Jon Sanborn (State Department) participated in field trials of an integrated safeguards approach for the CANDU facilities at the Wolsong Nuclear Power Station (Republic of Korea) in April. The purpose of the visit was to identify integrated safeguards methods to reduce the IAEA inspector effort during spent fuel transfers from the reactor facility to dry cask storage. Dr. Sanborn is preparing a final report for the IAEA.
		State Dept.	\$0.00	\$0.00	
C.111	Safeguards System for Chernobyl Unit 4 [JNT USA E 1445 / O. Zatsepin]	BNL/NCT	\$281,000.00	\$228,878.00	Brian Boyer (BNL) traveled with Colin Carroll (Sonalysts) to Vienna in mid March to meet with the IAEA's Department of Technical Cooperation (TC) staff. They discussed TC's radioactive waste disposal task at Chernobyl Unit 4 and the safeguarding of nuclear material, which may be discovered in the high level waste during the construction of the New Safe Confinement.
		Sonalysts	\$246,000.00	\$124,275.00	The Agency, Sonalysts, and BNL prepared for a site visit to Chernobyl NPP. The goals of the site visit are to plan for the installation of the MMCT and Shelter Monitoring systems and to determine radiation measurement instruments, which ChNPP could use to characterize material unearthed during the New Safe Confinement foundation excavation. ChNPP will brief the Agency and the US Team on the status of restarting construction of the Conditioning and Dry Storage Facility. The site visit to Chernobyl is planned for the week of August 8,
	C.111.01	LANL	\$60,900.00	\$41,100.00	Instrumentation Assistance to Shelter Project - There was no activity this quarter. Kiril Ianakiev's support to the IAEA in the construction of a multi-channel analyzer for a NaI spectroscopy design in support of safeguards at Chernobyl Unit 4 has been postponed.
	C.111.02	LANL	\$50,000.00	\$24,300.00	
	C.111.03	IAEA	\$23,000.00	\$0.00	

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
C.112	Consultant - Development Support for Integrated Safeguards [USA C 1451 / D. Hurt]				
		IAEA	\$60,000.00	\$46,937.00	
	C.112.01	ISPO	\$57,000.00	\$43,616.00	The consultant James Larrimore visited ISPO at BNL on May 5. He discussed his work with ISPO, met with contracts representatives, and made a presentation on Integrated Safeguards to the Nonproliferation and National Security Discussion Group. Mr. Larrimore consulted at the IAEA from May 17 through June 10. He assisted the IAEA in the implementation of short-notice random inspections (SNRI) at natural and low-enriched uranium conversion and fuel fabrication plants. A document was drafted to serve as a model for developing safeguards approaches for SNRIs under traditional and under integrated safeguards, and for planning and implementing of SNRIs at those facilities. Mr. Larrimore provided assistance in the criteria and guidelines for safeguards on nuclear material in retained waste, based on work performed in 1996 when he chaired the Criteria Working Group.
	C.112.02	BNL/NCT	\$16,000.00	\$0.00	
	C.112.02	BNLCONTR	\$78,500.00	\$0.00	

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
C.113		Development of Techniques to Estimate the Separative Capacity of R&D Isotopes [USA C 1476 / W. Bush]	BNL/NCT	\$25,000.00	\$15,078.00	Brian Boyer and David Gordon assembled information on gaseous diffusion plant operations. They provided LLNL with a chapter on the possibilities and probabilities of a gaseous diffusion enrichment pilot plant or R&D facility being used to create undeclared significant quantities of highly enriched uranium.
			LANL	\$40,000.00	\$21,400.00	John Lyman participated in the March 2 conference call set up by Mona Dreicer (LLNL). The participants are writing several sections for a report, which analyzes the uranium isotope separative capacity for methods that can be used for enrichment. The participants discussed their progress and planned for a meeting in the late summer to discuss the final document. LANL is responsible for preparing two sections of the report. The first analyzes the SILEX technology, which is a molecular laser isotope separation method for enriching uranium. The second analyzes the more general molecular laser isotope separation (MLIS) methods. The first report: "Enrichment Separative Capacity for SILEX" (LA-UR-05-3786) is complete.
			LLNL	\$55,000.00	\$34,779.00	As the coordinator of the preparation of a report on enrichment techniques, LLNL has received four of the seven sections needed for the first draft of the report.
			ORNL	\$40,785.00	\$9,096.00	Duane Starr and Len Phillips (ORNL) are preparing sections on calutrons, centrifuges, and the plasma separation process for the report. Participants are expected to meet next quarter to discuss and evaluate the drafted sections.
C.114		Develop a PBMR Operational Model to Identify and Quantify Proliferation Indicators and Possible Diversion Scenarios [USA C 1547 / Y. Touil]	INL	\$40,000.00	\$0.00	The SSTS approved this task at its May 18, 2005, meeting. INL will evaluate the strategic value of fully-burnt-up PBMR fuel. The results of this task will determine the need for additional work on PBMRs.
C.115		Quality Management Specialist [USA C 1555 / J. Patten]	IAEA	\$171,042.00	\$0.00	

TaskID	Title	Organization	Total Budget	Total Spent	Comments
C.116	Determination of Decommissioned Status of Facilities				
	[USA C 1561 / Y. Touil]				
		BNL/NCT	\$130,000.00	\$0.00	
D.122	Systems Engineering Process for SGIT				
	[USA D 1158 / G. Cherif]				
D.122.01		CGE&Y	\$251,000.00	\$162,839.00	
					A modification of the roadmap that could lead eventually to a change request was discussed, following an awareness session with SGIT. The modification would be able to be performed within the existing budget. CGE&Y will suggest a changed framework and seek the steering committee's approval.
D.122.02		BIT	\$70,000.00	\$29,623.00	
					There has been no activity reported for this quarter.
D.122.03		IAEA	\$70,000.00	\$0.00	
D.136	Expert - Divisional Information Security Policy Officer				
	- Terrence Dunn				
	[USA D 1335 / J. Baute]				
		CFE	\$775,200.00	\$615,324.00	
					The expert Terrence Dunn advised the Safeguard Departmental Information Security Office (SH-SPR) on the continuing development and implementation of improved information security policies. Mr. Dunn examined several reported problems and deficiencies related to information and physical security. He proposed/implemented solutions. Mr. Dunn served as departmental representative to the Agency-wide Information Security Policy Steering Group (ISPSG). He notified the ISPSG and senior managers of matters requiring policy attention. Mr. Dunn participated in the Department's planning for business continuity and disaster recovery. He assumed a security advisory role in the ISIS Re-engineering Project.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
D.137	Consultants - Assistance on Information Collection and Information Systems [USA D 1126 / V. Braguine]				
D.137.01		BNL	\$16,000.00	\$0.00	
D.137.01		ISPO	\$73,840.00	\$48,023.00	Allen Locke - There has been no activity reported for this quarter. Mr. Locke is scheduled to consult in November 2005.
D.137.03		LANL	\$103,000.00	\$82,200.00	Jeff Bedell - There has been no activity reported for this quarter.
D.137.04		LANL	\$235,000.00	\$168,308.00	Arvid Lundy - Dr. Lundy consulted with SGIT for two weeks in March on the methodology and use of scientific literature as part of the IAEA's open-source collection and country evaluations. Primary interactions were with SGIT/IIS and SGOB. John Lyman assisted Dr. Lundy, by reviewing several papers on laser-based enrichment technologies.
D.137.06		PNNL	\$180,000.00	\$161,682.91	Ned Wogman - There has been no activity reported for this quarter. Mr. Wogman's next scheduled trip to Vienna is from August 15 to August 26, 2005.
D.137.07		SNL	\$146,756.90	\$113,141.28	Joyce van Berkel - There has been no activity reported for this quarter. Ms. van Berkel will provide six weeks of support to SGIT in 2005. She has been in contact with the IAEA and has established tentative dates for support, beginning in August 2005.
D.137.08		LLNL	\$161,000.00	\$79,470.85	George Anzelon - There has been no activity reported for this quarter. Dr. Anzelon is planning tentatively to consult in September 2005. The SSTS has approved the redirection of some funding from this Subtaskk to Subtaskk D.137.16, to cover travel costs for Cyndee Annese (LLNL) to consult for two weeks in July 2005.
D.137.09		LLNL	\$117,862.00	\$83,209.33	William Domke - There has been no activity reported for this quarter. Dr. Domke plans tentatively to consult in the fall.
D.137.11		LLNL	\$72,982.27	\$72,317.93	Roger Miller - Mr. Miller consulted for two weeks from April 4 to 15, 2005. He produced four reports and provided other ad hoc assistance. Mr. Miller is scheduled to consult in October 2005.
D.137.12		LANL	\$57,000.00	\$30,355.00	Richard Wallace - Mr. Wallace's first consulting assignment is planned for July.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
	D.137.13	LLNL	\$29,500.00	\$29,969.00	Doug Vogt - Mr. Vogt consulted for two weeks from May 16 to 27, 2005. He produced two reports and provided other assistance.
	D.137.14	LLNL	\$29,500.00	\$16,374.00	Jim Hassberger - Mr. Hassberger consulted for two weeks from May 30 to June 10, 2005.
	D.137.15	LLNL	\$0.00	\$0.00	Lisa Owens Davis - The SSTS recommended adding Ms. Davis to the team of LLNL consultants under this task. Her consultation has not been scheduled.
	D.137.16	LLNL	\$0.00	\$0.00	Cyndee Annese - The SSTS approved the redirection of funding from Subtaskk D.137.08 or D.137.09 to cover travel costs for a two-week consulting visit by Ms. Annese. The visit was scheduled for July 2005 but had to be postponed.
	D.137.17	LANL	\$20,000.00	\$0.00	Caroline Mason - There has been no activity reported for this quarter.
	D.137.18	ISPO	\$0.00	\$0.00	Jacob Blackford - The SSTS approved at its April 7, 2005, meeting the assignment of Jacob Blackford to assist the IAEA with open source projects. Mr. Blackford will consult later this year.
	D.137.19	ORNL	\$30,000.00	\$0.00	James David Snider - The SSTS approved funding for this consultancy at its May 18, 2005, meeting.
	D.137.20	ORNL	\$30,000.00	\$18,406.00	Leonard Phillips - The SSTS approved funding for this consultancy at its May 18, 2005, meeting.
	D.137.21	PNNL	\$22,000.00	\$12,872.00	Winston Little - The SSTS approved funding for this consultant in July.
	D.137.22	BNL	\$35,000.00	\$0.00	
D.138	Open Source Information Collection [USA D 1381 / J. Lepingwell]				
	D.138.03	IAEA	\$39,000.00	\$25,479.00	K2 Enterprise System - There has been no activity reported for this quarter. Consultant Eduardo Fujii may not be available to continue his work on this project.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
D.141	Internship Program [USA D 1396 / A. Hamilton]				
	D.141.04	BNL	\$803,634.00	\$713,528.00	<p>2004-2005 Internships - Indhira Ramirez (SG/SPR) and Kathleen Donoghue (SGIT/ISH) completed their internships in May 2005. Cherie Knickerbocker (SGOA/JNFL), Francesco Queirolo (SGTS/TNS), and Kimberly van Dyke (SGIT) completed their internships in June. Kendra Klump (SGIT/TNS), Maryam Tatavosian (SGIT/IIS), Andrew Janowczyk (SGIT/ISH), and Christopher Duncan (SG/SIAU) continue their internships until August 2005.</p> <p>Extensions - Jonathon Essner (SGIT) and Jessica Satterfield (SGIT/IIS) have been extended in the internship program until September 2005. Arrangements were made for Jessica Satterfield to attend and present at the 2005 INMM annual conference.</p>
	D.141.04	BNL/OEP	\$85,000.00	\$258,814.00	
	D.141.05	IAEA	\$52,000.00	\$55,911.00	<p>The consultant Chris Dalton continued working on the Common Inspection Onsite Software Package (CIOSP) Version 2. He identified several new things to be addressed in the main coding of CIOSP. Mr. Dalton redesigned the user interface related to the wizards, which lead inspectors through different processes in the Book Exam and Short Notice Random Inspection (SNRI) plugins. He fixed minor bugs in the Book Exam wizard. Mr. Dalton modified the task completion notification in the SNRI wizard. He reworked CIOSP's menu system. Version 2 will have a complete menu system which will be dynamic, so that every window will have the capability to add its own menu items as needed. Mr. Dalton created a new set of classes that allow plugins to add their own menu items. The CIOSP team achieved the goal of binary compatibility for CIOSP. Mr. Dalton helped the JNFL Project Office prepare for an internal QA audit. He reviewed the code for fifteen versions of the project and put them into SourceSafe, so that they can be pulled out and compiled on a project-by-project basis.</p>

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	D.141.07	BNL/OEP	\$900,000.00	\$127,999.00	IAEA selections were completed for the 2005-2006 Internship Program in February 2005. Candidates were notified of their selection. The participants were confirmed by April. General orientation was held at BNL on May 16 for the 2005-2006 Internship Program. All but one intern attended. One JPO and one intern who is to be assigned to the IAEA's Department of Nuclear Safety and Security attended also. The new interns are: Sarmadi Almecci (SGIT/TIE), Jeffrey Easley (SGIT/ISH), Mike Fayer (SGIT/ISH), James Garner (SGIT/JNFL), Lauren Ginsberg (SGIT/TIE), Holli Hoerchelman (SGOC/OCF), Maria Ivkovic (SGIT/IIS), David Kamran (SGIT/IIS), Mark Laughter (SGIT/IIS), Patrick Lynch (SGIT/SIAU), Victoria Pratt (SGIT/TNS), Lawrence Taylor (SGIT/ISH), William Wanderer (SGIT/IIS), and Santhosh Xavier (SGCP/PSA). Three interns will begin their internship in July. The remaining interns will begin in September 2005. Travel authorizations and appointments will be made for interns starting in July. Arrangements are being made with the IAEA to hold a site specific orientation at the VIC in September.
	D.141.08	BNL	\$22,000.00	\$4,445.00	
	D.141.08	LANL	\$45,800.00	\$0.00	This task will begin next quarter.
					This task will begin next quarter.
D.146	Quality Control Verification Software for Member States Nuclear Material Accounting Reports to the Agency [USA D 1429 / X. Wang]	SAIC	\$135,000.00	\$133,197.78	The IAEA completed QCVS acceptance testing and signed the User Acceptance Letter, closing the User Acceptance Testing Phase of the project. The IAEA and AWST planned the Maintenance Phase. IAEA will be responsible for external testing and collection of feedback from selected member states and for prioritization of change requests. AWST will be responsible for updating the QCVS documentation to reflect the "as built" software, implementing high-priority change requests, and supporting other QCVS issues within the available budget. AWST drafted an updated version of the QCVS Software Design Document which will be reviewed, revised, and delivered to the IAEA. AWST implemented two software change requests from the IAEA and provided responses to three user questions.

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D.148		Expert - Special Technology Coordinator [USA D 1443 / M. Nicholas]	CFE	\$438,200.00	\$292,434.00	The expert John Hilliard served on a steering committee that oversees a technology team, an analysts team, and an outside expert team for improving information analysis tools. Mr. Hilliard continued work as project leader of the team who is creating a new user interface, or open source portal, for the Department of Safeguards. He continued to work closely with Verity consultants on the migration from Search 97 to the K2 Enterprise system, which is in its final stages of completion. Mr. Hilliard has started the procurement process on many new analysis tools such as LAS, I2, Inxight, Systrans, and Language Weaver. These tools are expected to enhance the IAEA's information analysis
D.149		Specialist Training for IAEA's Imagery Analysts [USA B 1442 / F. Claude]				
	D.149.01		IAEA	\$8,501.00	\$8,501.00	The IAEA has deferred additional training in satellite imagery analysis, until a decision is reached as to how to proceed with the satellite imagery analysis laboratory upgrade. Training needs are expected to be understood by the third quarter. This Subtaskk is on stand by.
D.150		Expert - Systems Analyst [USA D 1460 / J. Smith]	CFE	\$428,100.00	\$290,183.00	The expert Scott Miller completed the Additional Protocol/Complimentary Access Tracking System (CATS) software. Both SGOA and SGOC have been tracking document packages since February. Mr. Miller worked with SGOB to get the necessary scanners and printers set up for both IDP and CATS tracking. He gave training courses on the software to the support staff. Mr. Miller developed a training server that provides online "live" training in the use of the software. SGOB began using CATS to track their document packages in April. All operations divisions are using CATS to track their document packages successfully. Mr. Miller gathered requirements for a major enhancement of the Additional Protocol/Complimentary Access System, which will improve the usability of the software so that inspectors and support staff are more effective in using the Complimentary Access System. This will involve improvements to the central Complementary Access and Additional Protocol Systems and software for mobile use.
D.151		IAEA Safeguards Information System Re-engineering Project [USA D 1461 / L. Costantini]	TBD	\$0.00	\$0.00	This task provides a mechanism for POTAS-funded support to the ISIS Re-engineering Project. Non-POTAS support is tracked under Task SP.62. There are no activities funded under this task at present.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
D.152	Software, Hardware and Database Provision for Satellite Imagery Analysis Support [USA D 1477 / F. Claude]	IAEA	\$100,000.00	\$0.00	There has been no activity reported for this quarter.
D.153	Junior Professional Officer for the JNFL Project [USA X 1513 / S. Johnson]	IAEA	\$102,000.00	\$38,607.00	Gregory Gerrein will begin his Junior Professional Office position in the JNFL Project Office on July 4, 2005.
D.154	Expert - IAEA Safeguards Information System Re-engineering Project [USA D 1520 / L. Costantini]	IAEA	\$230,000.00	\$7,825.00	The SSTS approved a revised scope of work for this CFE position in June. Richard Watts received a job offer from the IAEA shortly afterwards. Mr. Watts is considering the offer.
D.155	Imagery Analyst [USA D 1519 / F. Claude]	IAEA	\$50,000.00	\$0.00	The Department of Defense held a meeting in June to consider candidates for this position.
D.156	Software Development Support: LIMS for the SAL [USA D 1523 / S. Balsley]	IAEA	\$55,000.00	\$55,000.00	This task involves a contract with Construx Software to conduct Phase 1 of the new Laboratory Information Management System (LIMS). Construx is scheduled to deliver the final report in mid September.
D.157	Windows/Office 2003 Migration for Safeguards [USA D 1548 / R. Gronvius]	IAEA	\$87,750.00	\$0.00	
D.158	Expert - Design, Development and Implementation of Data Collection and Evaluation Software for RRP [USA D 1556 / R. Gaetano]	IAEA	\$100,000.00	\$0.00	

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
D.159	Design and Definition for an Enhanced Information Analysis Architecture [USA D 1564 / Murray]				
		Azura Media	\$5,200.00	\$0.00	
		LLNL	\$16,000.00	\$0.00	
		MITRE	\$8,600.00	\$0.00	
		SNL	\$14,000.00	\$0.00	
E.119	Upgrading of GARS Review Software and Software Factory Support [USA E 1249 / B Wishard]				
	E.119.01	Aquila	\$110,000.00	\$48,000.00	
					Aquila is expending the final funding for the original task. Funding has been approved for the follow-on task. Aquila expects an RFQ for the follow-on funding by the end of July.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
E.122	URM Systems Standardization and Support [USA E 1274 / K. Ferstl]				
	E.122.02	LANL	\$70,000.00	\$66,839.00	Radiation Review for VXI Integrated Fuel Monitor (VIFM) - Radiation Review 3.1.0.2 included with Baseline 1 Rev 2 was released in April 2005. Radiation Review was modified to support reading new VIFM file formats. Radiation Review released with Baseline 1 Rev 2 supported the original file formats produced by the ADAM VIFM system. Radiation Review has been modified to read the newest VIFM file format in addition to the original file format.
	E.122.03	LANL	\$140,000.00	\$36,998.00	Performance Review Software - There has been no activity reported for this quarter.
	E.122.04	LANL	\$314,000.00	\$310,356.00	Multi-Instrument Collect Generic Module (MICGM) - Work continued on completing MICGM. An update to the MICGM Software Interface Specification was completed and provided via email to the IAEA. Windows XP and Windows 2000 clean machines were set up in anticipation of testing. The MICGM prototype modules were modified so that they are up-to-date with the MIC 1.9.0.7 code. Coding was completed on the MICGM modules for MIC manager client (excluding the file manager functionality), Direct Serial communications component, Watch Window instrument component, American Power Conversion Uninterruptible Power Supply instrument component, original Gamma Ray and Neutron Detector (GRAND) instrument component (pre-MG 4.10 firmware version), MIC 1.9.0.7 GRAND instrument component (handles all versions of MG firmware), Intelligent Local Node (ILON) communications component, Intelligent Shift Register/Advanced Multiplicity Shift Register (ISR/AMSR) instrument component, Jomar Shift Register (JSR) instrument component, and Event instrument component. Coding was started on the multi-channel analyzer (MCA) instrument component.
	E.122.06	LANL	\$489,000.00	\$487,500.00	Auxiliary Communication Device (ACD) - LANL delivered two prototype ACDs to Keith Tolk at the IAEA for testing, prior to the Rokkasho installation. Final (slightly modified) Gerber files were provided to Aquila to for use in building fifty ACDs for the IAEA Rokkasho installation. LANL met with Aquila regarding the ACD build.
	E.122.08	LANL	\$157,000.00	\$63,654.00	Unattended Monitoring System (UMS) Software Modifications - Multi-Instrument Collect 1.7.0.9 was included with the Baseline 1 Rev 2 release in April 2005. The Software Requirements Specification document was updated to show that the software was for the Unattended and Remote Monitoring (UNARM) project. The appendix was updated to reflect the LANL assessment of completed items. The updated document was sent to Max Aparo on April 22, 2005. LANL is waiting for IAEA feedback.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
	E.122.09	LANL	\$77,700.00	\$69,900.00	Completion and Delivery of Baseline 1 - All issues and software updates which were requested during the UNARM Baseline 1 training task were recorded and sent to the IAEA (LA-UR-05-2734, "LANL Issues List From Vienna Visits: June '04, February '05"). The accumulated list reflected the items that had been closed or converted into change requests, discrepancy reports, and open issues. The Subtaskk is
	E.122.10	LANL	\$100,000.00	\$103,100.00	Study to Convert IAEA Neutron Coincidence Counting (INCC) and Isotopic Review (ISO) to Component Object Modules (COMs) - The required interface specification documents for COM modules derived from the INCC and ISO codes have been written and delivered to the IAEA. A proposal for implementing the specified modules was presented at the May SSTS meeting. The FY05 portion of that proposal was approved.
	E.122.11	LANL	\$121,000.00	\$61,074.00	Generic Software Components for the Chernobyl Conditioning Facility - Please see Task E.130.01.
	E.122.12	LANL	\$241,077.00	\$40,193.00	Decomposition of Analysis Modules - Interface documentation for proposed import and analysis COMs has been written. The work schedule was rearranged to document the proposed COMs under this task, to meet the needs of the Nondestructive Assay Review (NDAR) project. A document has been written for interfaces for CoSrImport, CoAdclImport, CoSrMeasurementsAnalysis, CoDirectionAnalysis, and CoIntegrityAnalysis.
	E.122.13	LANL	\$288,000.00	\$70,780.00	Control Board and Baseline Release Management and Support - This task was created to establish a software control board to better manage the Unattended and Remote Monitoring (UNARM) software product from LANL's N-1 group. The software board has met weekly to discuss control board processes, and the status and schedule of UNARM software releases. The board has generated thirty-one new Software Change Requests out of a total of eighty-two. Twenty-two change requests have been closed. The generation, updating, and tracking of these change requests has become time consuming. Therefore, the board evaluated commercial software with these capabilities. Serena ChangeMan Professional Product was selected, purchased, and installed onto a local server. LANL is building its process flow using the tool and plans to transition, within the next month, to using the tool for software issue tracking. The control board managed the development and testing of UNARM Baseline 1 revision 2, which was delivered to the IAEA on April 1, 2005.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
	E.122.14	LANL	\$85,500.00	(\$500.00)	INCC and ISO Com Conversion - This Subtaskk is for the conversion of the INCC and ISO codes to component object modules (COM's), which are planned for use at Rokkasho and other IAEA monitoring systems. Funding was approved at the May SSTS meeting. Due to an IAEA change in priority on Rokkasho projects, the SSTS approved shifting this funding from E.122.14 to A.247.19, by phone poll in July. E.122.14 will be deferred until FY06 and the arrival of FY06 funding.
	E.122.15	LANL	\$55,000.00	\$0.00	
E.125	Remote Monitoring and Unattended Digital Surveillance Systems [USA E 1330 / M. Aparo]				
	E.125.13	LANL	\$69,000.00	\$20,708.00	Optical Imaging Sensor Development Support - There has been no activity reported for this quarter.
E.126	Expert - Safeguards Equipment Systems Information Security (Tolk) [USA E 1339 / M. Aparo]				
		CFE	\$715,700.00	\$570,643.00	The expert Keith Tolk traveled to RRP to plan for the upcoming installation of the IJPD authentication hardware and to configure the Local Cabinets. Mr. Tolk surveyed each of the IJPD installation sites with the Japanese contractor who will install the bulk of the hardware. He visited eighteen of the Local Cabinets, where he installed/configured the Netscreen firewall devices, installed the latest version of Sign and Forward, and ensured that the computers in the cabinet were properly signing and/or forwarding data to the Raw Data Base. Mr. Tolk conducted tests in preparation for the first test installation of the IJPD authentication hardware, scheduled for July. He drafted a new version of the policy on Joint Use Equipment. Mr. Tolk edited the document to include revisions from several reviewers.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
E.127	Expert - Remote Monitored Surveillance Systems Development and Implementation Coordination (Regula) [USA E 1350 / M. Aparo]	CFE	\$584,700.00	\$441,191.00	The expert James Regula installed a satellite pilot project, in cooperation with the European Space Agency at SXM in Slovakia, for a three month pilot test. The satellite is running the standard Safeguards (SG) VPN tunnel over the link and has been in operation since April 7 without problems. The satellite capability gives SGTS another method of data transfer, especially favorable in geographic areas where communications infrastructure is lacking. Mr. Regula traveled to Canada for three weeks to upgrade remote monitoring (RM) communications. He moved all SG equipment to a 'LAN-Sharing' configuration at the Bruce facility to transport data back to the SG regional office in Toronto. Two DMOS units at Darlington were hooked to xDSL lines, which is the first time that this has been offered to an outside user in a Canadian facility. Mr. Regula's testing of new transfer software for both VIFM and DMOS will be completed for the RM deployment at Cernavoda, Romania, in early July. He has developed a Terminal Server solution to enable VIFM technicians in Vienna to access remote Canadian VIFM computers for troubleshooting and maintenance.
E.130	Integrated Safeguard System for SF Conditioning Facility (Part 2/3 of Chernobyl Transfer and Conditioning Campaign) [USA E 1361 / G. Ingraio]				
E.130.01		LANL	\$1,305,000.00	\$1,302,988.00	MiniGRAND 4.10, MultiInstrument Collect 1.7.0.9, and Radiation Review 3.1.0.2 included with Baseline 1 Rev 2 were released in April 2005. The IAEA has agreed to accept the Digital Video Review with the latest Aquila I15 control. LANL outlined the limitations of this approach in an email on April 22, 2005. Max Aparo approved delivery of this version in his email on April 28, 2005. He stated that he would work with Aquila on an upgrade, which addresses the problems of the files not being put into day files. The analysis tool for MiniGRAND parameters called Data Filtering Program (DaFi) is being developed.
E.130.01		Sonalysts	\$331,227.00	\$324,464.00	The Agency is making preparations to install the upgraded MMCT at Chernobyl. SNL and Aquila Technologies have completed modifications to the MMCT. They will ship the upgraded MMCT to the Agency in July. The Agency and SNL will install the MMCT at Chernobyl in September 2005, after testing at the Agency.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
E.131	Testing/Evaluation Programme for Unattended Monitoring and Surveillance System's Computer Software Operating System [USA E 1370 / G. Rengarajan]				
	E.131.04	LANL	\$86,900.00	\$84,300.00	Multi-Instrument Collect (MIC)/Windows XP Certification - LANL has indicated that this project has been completed. ISPO needs to review this project to ensure all deliverables have been received, prior to obtaining closeout concurrence from IAEA.
E.133	2002 Factory Support for DIS [USA E 1108 / B. Wishard]				
	E.133.01	Aquila	\$513,301.09	\$484,841.00	Kent Brown and Anthony Gonzales continued to provide factory support for the IAEA's existing digital imaging surveillance (DIS) systems. Mr. Brown provided technical assistance for SDIS validation testing and future upgrading. He continued testing GARS hardware platforms for field use. Mr. Brown defined requirements for the upgrades of support software for DIS systems. Initial planning has begun to process GARS surveillance data on the SG LAN. Mr. Brown traveled to Switzerland for troubleshooting and upgrading of two SDIS systems. Anthony Gonzales continued testing and upgrading DIS equipment for field use. He continued to provide liaison support with the factory for DCM 14 upgrades. Mr. Gonzales will participate in the implementation of the replacement of DCM 14 backup batteries program by performing testing, conducting training, managing logistics, and updating documentation.
	E.133.02	Aquila	\$398,125.91	\$161,567.91	Factory support funding is still being provided under Task E.133.01.
	E.133.03	IAEA	\$134,000.00	\$14,532.00	Aquila received an RFQ for a third factory support representative. They submitted a proposal to the IAEA for Mr. Vio Popescu to provide this support. The proposal is in IAEA procurement, undergoing final evaluation. Aquila expects to receive an order by the end of July.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
E.134	Mobile Safeguard System for SF Transportation from Chernobyl NPP to Conditioning Facility [USA E 1375 / G. Ingrao]	IAEA	\$55,000.00	\$55,000.00	
E.134.01		SNL	\$805,355.28	\$757,249.00	Assembly of the first system has been completed, new software has been installed, and the system is undergoing functional testing prior to shipment. The target shipping date to the IAEA is July 1, 2005. Don Glidewell (SNL) and Mike White (Aquila) discussed the project with Goran Af Ekenstam, Aleh Zatsepin, Giovanni Ingrao, and Jim Halbig (IAEA), during the USSP-IAEA Annual Review Meeting in Vienna during the week of June 6. A tentative installation date of August 29 to September 2, 2005 was established.
E.134.02		LANL	\$257,000.00	\$259,295.00	The remaining software work for the MMCT system upgrade will be completed and LANL will issue a report summarizing the work.
E.134.03		Aquila	\$121,250.00	\$64,088.00	MMCT system number 2 has been reengineered and is undergoing testing. The anticipated shipping date to the IAEA is July 1, 2005.
E.135	Safeguards Systems for Chernobyl SF Long Term Dry Storage (Part 3/3 of Chernobyl Transfer and Conditioning Campaign) [USA E 1376 / G. Ingrao]				
E.135.01		LANL	\$3,923.00	\$3,923.00	This task is on stand by.
E.137	Next Generation Camera Module and Server-Based Surveillance Systems [USA JNT E 1437 / B. Wishard]				
E.137.01		Sonalysts	\$109,666.00	\$86,240.00	Aquila and Dr. Neumann Consulting have started work designing the NGSS. Dr. Neumann is focusing initially on selecting and testing the components, which will be used to build the NGSS. Aquila conducted a planning meeting with Max Aparo (IAEA) to discuss the user requirements for the review software. The NGSS team will hold a project status meeting in October 2005.
E.137.02		IAEA	\$160,000.00	\$0.00	Phase I Development of the NGSS is ongoing. Equipment testing at the Prater Reactor in Vienna has been initiated. The IAEA, Aquila, and Dr. Neumann Consulting (DNC) met on May 30 and 31 for a Review Software Strategy Meeting, to discuss the review software architecture.

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
E.139		Expert - Digital Image Surveillance, Unattended Monitoring System Integration and Remote Monitoring Systems Engineer [USA E 1463 / M. Aparo]	CFE	\$354,900.00	\$233,779.00	The expert Lee ReFalo made two trips to Lithuania. The first trip supported the spent fuel transfer monitor (SFTM) and GRAND3 to MiniGRAND upgrade. The second trip was for the replacement of the central data collection computer and to install network connection to the SFTM. Mr. ReFalo participated in meetings on the design of, and IAEA requirements for, a new reactor fuel transfer monitor (RFTM). Funding has been approved. The ordering process has begun. Mr. ReFalo tested the LANL Baseline 1 Rev 2 software release. He documented his observations and provided them to the task officer. Mr. ReFalo traveled to Japan to set up a connection between the TRO office and the Japanese NMCC office, for direct transfer of PFPF remote monitoring data. During a visit to Monju, he discussed equipment/design verification activities which will be necessary for the planned facility startup.
E.140		Enhancement of Cobra Fibre Optic Seal System [USA E 1475 / G. Weeks]	IAEA	\$346,000.00	\$141,400.00	Aquila met with the IAEA Task Officer on June 6, 2005, to coordinate development activities. The laboratory prototype has been resized and upgraded. Experiments with an upgraded seal mold are ongoing.
E.142		Vulnerability Assessment of EOSS and IRES Electronic Seals [USA E 1509 / M. Goldfarb]	SNL	\$177,000.00	\$117,488.00	SNL completed the software/firmware vulnerability assessment (VA) of the EOSS in April 2005. The draft Final Report was sent to the IAEA on April 28, 2005. Don Glidewell met with Michael Goldfarb and George Weeks (IAEA) at the USSP-IAEA Annual Review Meeting in Vienna during the week of June 6. The IAEA has accepted the Final Report as drafted. A version marked "Final" will be forwarded to the IAEA, completing this task. The IAEA will initiate a small follow-on task for a very specific VA of the foil membrane in the seal.
E.143		Junior Professional Officer - Engineers Support to Unattended Monitoring [/]	IAEA	\$90,000.00	\$39,101.00	The IAEA selected Nina Wilson for this Junior Professional Officer (JPO) position. The SSTS approved the position at its April 7, 2005, meeting. The IAEA offered the position officially to Ms. Wilson in June. Ms. Wilson attended the intern orientation at BNL on May 16 (see Task D.141.07). She is expected to begin her JPO assignment in July.

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
E.144		Ultrasonically Interrogated Metal Seal [USA E 1532 / M. Goldfarb]				
			INL	\$15,000.00	\$3,381.00	The SSTS approved funding at its April 7, 2005, meeting for INL to conduct a feasibility study for verifying the IAEA's metal seal in situ, using ultrasonic techniques.
			PNNL	\$100,000.00	\$21,720.98	The SSTS approved funding at its April 7, 2005, meeting for PNNL to conduct a feasibility study for verifying the IAEA's metal seal in situ, using ultrasonic techniques.
E.145		VOID-3 Vulnerability Assessment [USA E 1533 / H. Undem]				
			LANL	\$296,000.00	\$95,098.00	The SSTS approved funding at its April 7, 2005, meeting for LANL to conduct vulnerability assessments (VAs) of the VOID-2 adhesive seal (the currently used seal), the new VOID-3 seal design, and the VOID-3 seal prototypes (Task 1). Assessments of the real-time counterfeit resistant features (Task 2) and forensic key features (Task 3), and the development of operational protocol and an inspector training program (Task 4) are included. The IAEA has contracted with Avery-Dennison to develop the seal in partnership with the VA team, using regular budget funds.
E.146		Feasibility Study for Change Detection Software Applied to Metal Seal Signatures [USA E 1534 / H. Undem]				
			INL	\$52,000.00	\$8,884.00	The SSTS approved funding at its April 7, 2005, meeting for INL to conduct a feasibility study to evaluate use of INL's Change Detection Software for accelerating the verification process of the IAEA's metal seal in the seals laboratory.
E.147		MMS Software Update [USA E 1535 / G. Weeks]				
			SNL	\$25,206.00	\$17,971.00	The SSTS approved funding at its April 7, 2005, meeting for SNL experts to attend a meeting in Vienna to discuss the requirements for upgrading the Material Management System (MMS) architecture and software at the K-Area Storage facility (Savannah River Site).
			SRNL	\$8,000.00	\$0.00	The SSTS approved funding at its April 7, 2005, meeting for an SRS expert to attend a meeting in Vienna to discuss the requirements for upgrading the Material Management System (MMS) architecture and software at the K-Area Storage facility (Savannah River Site).

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
E.148		Expert - Senior Sealing Systems Engineer [/]	CFE	\$0.00	\$0.00	
F.032		Consultant - Services Safeguards Issues (R. Hooper) [USA C 1134 / J. Cooley]	IAEA	\$609,336.87	\$523,448.00	The consultant Richard Hooper presented the seminar on strengthened safeguards during the week of May 9 to twenty-two participants. He continued working on revising and updating the presentation material.. The seminar will be given again in 2005 and in 2006.
F.036		Fixed Term Assistant - Procurement Services [USA F 1472 / A. Hamilton]	IAEA	\$356,000.00	\$0.00	The expert Philip Beauparlant entered into negotiations with the proposed contractor for IAEA Safeguards Information System (ISIS) Re-engineering Project (IRP). A meeting was held with the Director General on March 10, 2005, to discuss the project and find a solution to various issues of concern. Contract negotiations concluded for the ISIS IRP. The contract was awarded to Cap Gemini Ernst & Young (CGE&Y) on June 7, 2005. IRP Management expressed interest that Mr. Beauparlant act in the role of project manager for the initial stages of the IRP Project. Mr. Beauparlant has received a SOW for additional efforts with AWST for the Integrated Inspector Information (I3S) system. The request for proposal was released on May 13, 2005. The proposal was received on May 27, 2005, and submitted to the PAC. Mr. Beauparlant has received various requests for equipment procurement for the Rokkasho program. These are in process. Proposals for the Rokkasho program were received May 19 and are awaiting documentation from Technical Representatives. Mr. Beauparlant has placed other various safeguards related procurements. He has received PAC approval for Training Support for Quality Management Workshops with Stat-A-Matrix (SAM). The contract amendment has been drafted and is awaiting formalization from OLA.
S.026		The Design and Development of an Orientation Course for U.S. CFEs and IAEA Staff [USA X 943 /]	ISPO	\$395,487.00	\$395,487.00	ISPO is determining how to proceed with the project, due to illness of the contractor.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
S.036	Integrated Safeguards Consultations [USA X 1315 / L. Gourgon]	BNL/NCT	\$799,245.00	\$798,899.00	The final report on the analysis of integrated safeguards approaches at light water reactors is in preparation and will be circulated for comment at the end of August.
		ISPO	\$32,349.00	\$32,349.00	
		LLNL	\$12,300.00	\$12,300.00	
		ORNL	\$33,875.00	\$33,875.00	
		PNNL	\$25,000.00	\$24,505.00	
		SNL	\$9,894.51	\$9,894.51	
S.037	ISPO Recruitment Program [USA X 942 /]	ISPO	\$276,422.00	\$276,521.00	Michele Rabatin and Donna Occhiogrosso attended the Electric Power Meeting, which was held in Chicago from April 4 to 6, 2005, where they distributed recruitment information. ISPO planned for the INMM Annual Meeting in July 2005 and several other trade shows that will be held in the fall.
S.049	IAEA Travel for US Support Program Tasks [USA X 1306 / A. Hamilton]	IAEA	\$1,723,024.00	\$1,367,221.00	This task provides funding to the IAEA for task related travel. The SSTS responds to quarterly travel projections prepared by the IAEA's Support Program Administration.
S.053	Non-Proliferation and Disarmament (NDF) Funding for SG Equipment [USA X 1342 / B. Bartsiotas]	ISPO	\$3,106,000.00	\$3,078,387.00	This task was established to track the expenditure of funding provided through the Nonproliferation and Disarmament Fund (NDF) in 2000. The NDF approved funding in 2000 for the procurement of geospatial laboratory and digital image surveillance equipment. ISPO, the IAEA, and the State Department's NDF office are working together to expend the remaining funding and to close out this account.

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
S.057		USVC Funding in 2001 for SG Equipment [USA X 1393 / B. Bartsiotas]	IAEA	\$10,154,770.44	\$8,893,108.02	This task was established to track the IAEA's expenditure of funding provided in the 2001 US Voluntary Contribution for the procurement of Safeguards equipment.
S.060		Contracts Labor Charge [/]	ISPO	\$211,707.00	\$148,560.00	This task provides funding for the labor charges that are incurred by the BNL Procurement and Property Management Division, while executing contracts and purchase orders for USSP tasks.
S.061		2002 U.S. Voluntary Contribution for Safeguards Equipment [USA X 1490 / B. Bartsiotas]	IAEA	\$6,634,575.73	\$5,422,598.90	This task was established to track the expenditure of the 2002 US Voluntary Contribution for Safeguards Equipment.
S.062		ISIS Reengineering [USA D 1491 / M. Strohmayer]	IAEA	\$9,069,516.67	\$358,741.00	This task was established to track US Voluntary Contributions to the ISIS Reengineering Project. The IAEA selected Cap Gemini Ernst & Young (CGE&Y), based on an extensive bid evaluation. The contract was signed by the IAEA and CGE&Y on June 7, 2005, in Vienna.
	S.062.01		IAEA	\$612,943.33	\$412,943.33	NPT Accounting Software - There has been no activity reported for this quarter.
S.065		NDF 2002	IAEA	\$4,155,000.00	\$2,132,531.00	This task was established to track the expenditure of funding provided through the Nonproliferation and Disarmament Fund (NDF) in 2002. The NDF approved funding for high priority NDA and surveillance equipment. ISPO, the IAEA, and the State Department's NDF office are working together to expend the remainder of the funding and to close out the account.

TaskID	Title Subtask [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
S.066	2003 USVC for Safeguards Equipment [/]	IAEA	\$7,700,000.00	\$2,928,308.68	This task was established to track the IAEA's expenditure of funding provided in the 2003 US Voluntary Contribution for the procurement of Safeguards equipment.
S.068	Information and Communication Technology Conference [/]	ISPO	\$20,000.00	\$0.00	There was no activity scheduled for this quarter at LANL, LLNL, ORNL, PNNL, SNL, or in the private sector.
		LANL	\$10,000.00	\$11,000.00	
		LLNL	\$10,000.00	\$0.00	
		ORNL	\$9,925.00	\$9,925.00	
		PNNL	\$10,000.00	\$9,847.00	
		SNL	\$10,000.00	\$5,821.00	
		Sonalysts	\$85,000.00	\$71,034.00	There has been no activity reported for this quarter. The Agency is reviewing the draft conference report. Sonalysts will finalize the report and submit it to the Agency and ISPO for publication, upon receipt of the Agency's comments.
S.069	2004 USVC for Safeguards Equipment [/]	IAEA	\$4,359,600.00	\$1,178,229.44	This task was established to track the IAEA's expenditure of funding provided in the 2004 US Voluntary Contribution for the procurement of Safeguards equipment.

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
S.071		NDA Training Course Relocation [/]				
			IAEA	\$5,000.00	\$0.00	
						There has been no activity reported for this quarter.
			INL	\$45,000.00	\$14,254.00	
						INL is performing a documented safety analysis (DSA) review of all former ANL-West facilities, due to the transition of ANL-West into the INL. The DSA should be completed by the end of August 2005. This review will help establish the work scope for relocating the IAEA NDA course to INL.
			ISPO	\$36,000.00	(\$1,060.00)	
						There has been no activity reported for this quarter.
			LANL	\$24,000.00	\$23,500.00	
						There has been no activity reported for this quarter.
			SRNL	\$4,000.00	\$0.00	
						There has been no activity reported for this quarter.
S.072		Technical Meeting on Novel Technologies (including discussion of OIOS MSSP Management Audit), Washington, February 24-25, 2005 [/]				
			IAEA	\$0.00	\$0.00	
						This task is on stand by, awaiting proposals from the IAEA for new activity related to novel technologies. There are several related meetings planned for later in 2005, such as the Noble Gas meeting under Task A.262.
S.073		2005 USVC for Safeguards Equipment [/]				
			IAEA	\$4,352,485.00	\$0.00	
						This task was established to track the IAEA's expenditure of funding provided in the 2005 US Voluntary Contribution (USVC) for the procurement of Safeguards equipment. The IAEA's request for extrabudgetary funding for safeguards equipment was received on March 24, 2005, and reviewed by the SSTS at its May 18, 2005, meeting. The SSTS approved the IAEA's request for equipment funding with specific modifications and conditions. The SSTS approved the use of remaining USVC funding from previous years (Tasks SP.57, SP.61, SP.66, and SP.69) for this year's equipment request, with the proviso that the IAEA use funding from previous years before using funding from the 2005 USVC. This will ensure that any remaining unobligated funding would belong to the 2005 USVC.

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
S.074		Enrichment Technical Meeting [/]				
			BNL/NCT	\$6,513.00	\$5,828.00	Brian Boyer prepared for, and traveled in mid April to, the "Techniques for IAEA Verification of Enrichment Activities" meeting at the IAEA, to present a paper on enrichment safeguards approaches, as a member of the US delegation to the meeting. Dr. Boyer participated in the meeting's working group on detection of LEU diversion from, and misuse of, declared LEU producing enrichment facilities.
			LANL	\$18,000.00	\$17,900.00	Diana Langner participated in the IAEA Technical Meeting on techniques for IAEA verification of enrichment facilities held from April
			LLNL	\$16,000.00	\$9,085.00	George Anzelon participated in the IAEA Technical Meeting on IAEA Verification of Enrichment Activities, which was held from April 18 to 22, 2005. Dr. Anzelon presented a talk on the role of information analysis in detection of undeclared activities. He served as Chair of Working Group 3, Detection of Undeclared Enrichment Activities.
			ORNL	\$15,568.00	\$15,568.00	Michael Whitaker represented ORNL at the IAEA Technical Meeting on IAEA Verification of Enrichment Activities, which was held from April 18 to 22, 2005. Mr. Whitaker participated in Working Group 2, addressing the timely detection of the misuse of a declared facility to produce higher-than-declared enrichments.
			PNNL	\$19,000.00	\$18,851.00	John Wacker (PNNL) attended the IAEA Technical Meeting on IAEA Verification of Enrichment Activities, which was held from April 18 to 22, 2005. Dr. Wacker participated in the working group on undeclared production at an undeclared enrichment facility.

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
S.075		Safeguards Tools for the Future [/]				
			BNL/NCT	\$11,000.00	\$0.00	
			INL	\$9,500.00	\$0.00	
			ISPO	\$17,000.00	\$0.00	
			LANL	\$20,000.00	\$14,188.00	
			LLNL	\$9,500.00	\$0.00	
			ORNL	\$10,000.00	\$0.00	
			PNNL	\$12,000.00	\$10,617.48	
			SNL	\$17,000.00	\$0.00	
			Sonalysts	\$86,000.00	\$43,504.00	
						Colin Carroll and Donald Estes (Sonalysts) worked with Safeguards Information Technology (SGIT) and Safeguards Technical Services (SGTS) to prepare for the SGIT/SGTS technology workshop, which is scheduled from October 10 to 14, 2005, in Newport, Rhode Island. Sonalysts and the Agency agreed that the theme of the workshop will be "Safeguards Tools of the Future." The workshop will bring together technical experts from government, academia, and private industry to explore technology trends and to identify the equipment functionality or attributes, which will be required to support inspectors in the field. The participants will submit a report to the Agency at the conclusion of the workshop, which summarizes the technical discussions and presents a roadmap for the development and implementation of new technologies. Sonalysts, the Agency, and BNL plan to send invitations to the workshop in July 2005. The participant list will be finalized at the end of August 2005.

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
S.076		Technical Meeting on HRGS for Analysis of Environmental Samples [/]	LANL	\$18,000.00	\$14,100.00	A Consultants' Group Meeting on High Resolution Gamma Spectrometry (HRGS) of Environmental Samples was held at the IAEA from May 25 to 27, 2005. The purpose of the meeting was to discuss HRGS data discrepancies within the network of analytical laboratories (NWAL) and ways to better standardize counting protocols. Presentations were made by SGCP/PSA highlighting key radionuclides, the importance of HRGS results to the evaluation process, and areas of improvement. Participants from the NWAL including LANL presented details of sample handling, counting, and data evaluation processes. The meeting resulted in a list of eighteen recommendations that the IAEA and the NWAL should pursue or investigate for improvement and standardization. A final recommendation was that the IAEA should call periodic meetings with the HRGS experts of the NWAL to review progress.
			LLNL	\$41,200.00	\$42,318.00	
			ORNL	\$33,742.24	\$33,742.00	Doyle Hembree and John Keller represented ORNL at the Consultants' Group Meeting (CGM) on the use of high-resolution gamma spectrometry (HRGS) for environmental sample analysis for nuclear safeguards, held in Vienna from May 25 to 27, 2005. The CGM was hosted by the IAEA and was held to discuss the application of HRGS to nuclear safeguards and to make recommendations on improving the use of the method by the IAEA. Experts from seven countries attended.
			PNNL	\$19,000.00	\$18,903.00	Richard Arthur attended the Consultants' Group Meeting (CGM) on the use of high-resolution gamma spectrometry (HRGS) for environmental sample analysis for nuclear safeguards, held in Vienna from May 25 to 27, 2005. Discussions were held on how IAEA samples are analyzed for gamma emitting radionuclides and on how results are reported (e.g. specific isotopes, non-detects and less-than-value calculations). Sample counting time was reviewed, because the IAEA wants lower detection limits. Mr. Arthur is an expert in the analysis of environmental
W.001		Work For Others [/]	LANL	\$17,740.00	\$22,858.00	This task is used to reclaim funding from completed tasks at LANL, which will be redirected to new activities at LANL.
	W.001.01		LANL	\$0.00	(\$62,927.00)	

TaskID	Subtask	Title [Agency# / Task Officer]	Organization	Total Budget	Total Spent	Comments
W.003		Work for Others [/]	ORNL	\$390.00	\$390.00	This task is used to reclaim Work for Others fees and funding from completed tasks at ORNL, which will be redirected to new activities at ORNL.